Sl no	Specification	Unit	No	L	B	D	Qty	Rate	Amount
							379.83	167	
	Net qty						P5 1 1 1-1		
3	Supplying lowering laying, jointing, testing and commissioning of following diameters glazed stone ware pipes, conforming to IS 651:1992. (with 5th revision) In all respects jointing with EPDM rubber rings (seals according to EN 681 & ASPM 425) The rubber seals joints pipe will have groves in interior of socket and exterior of the spigot. The rubber gasket shall be prefixed at the factory by the manufacturer rigidly with approved glue to have leak proof joint including conveying of pipe to work site and rolling and lowering into trenches, laying true to line, level and perfect linking at joints testing and commissoning including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of GSW pipes and specials, with rubber gaskets conforming to EN 681 and ASTM C-425 including cleaning the socket and spigot with soap solution and applyign talcum powder for detecting crack, then applying glue and before inserting of rubber gaskets, jacking and fixing in perfect condition including the cost of soap solution, talcum powder and glue etc. and giving necessary hydraulic test to the required pressure ofwater head with all lead and lifts including costing of jointing materials and all necessary survey works for laying of sewers etc., and disposal of debris as directed etc., complete. (Contractor will make his own arrangements for procuring for testing) with Rubber ring gasket joints								
							P158 I 4.4		
	230 mm dia with rubber gasket	m							
	Inside B Ramaiah slum								
	MH 1 TO MH 2		1	25.00			25.00		
	MH 2 to MH 3		1	25.00			25.00		
	MH 3 to MH 4		1	29.00			29.00		
	MH 4 to MH 5		1	21.00			21.00		
	MH 5 to MH 6		1	30.00			30.00		
	MH 6 to MH 7		1	25.00			25.00		
	MH 2 to MH 7		1	23.00			23.00		
	Cross road Ramaiah slum								
	MH 8 to MH 9		1	23.00			23.00		
	MH 9 to MH 10		1	23.50			23.50		
	MH 10 to MH 11		1	23.00			23.00		
	MH 11 to MH 12		1	21.50			21.50		
	Big road inside B Ramaiah slum								
	MH 13 to MH 14		1	36.00			36.00		
	MH 14 to MH 15		1	30.00			30.00		
	MH 15 to MH 16		1	30.00			30.00		
	MH 16 to MH 17		1	30.00			30.00		
	Total						**395.00**		

Scanned with CamScanner

Sl no	Specification	Unit	No	L	B	D	Qty	Rate	Amount
	Deductions for Manholes		15	1.200					
	Net qty						18.00		
							377.00	501	188877.00
4	Dismantling the damaged or collapsed manholes of 1.2M dia., conical in shape, and reconstructing the same for the same dimensions, with machine made wire cut brick in CM 1:4 with ordinary portland cement etc. as per design and specifications. The existing ring, cover and CC beeding to be used. P 180 I 118								
	Up to 0.80 m depth								
	MH 13,		1				1	10155.2	10155.2
	Up to 1.00 m depth								
	MH 1, MH 2, MH 3, MH 4, MH 5, MH 6, MH 8, MH 9, MH 10, MH 11, MH 12, MH 14		12				12	12694	152328
	Up to 1.50 m depth								
	MH 7		1				1	16872.5	16872.5
5	Providing and constructing "wire cut brick manhole chambers" using sulphate resistant cement, conical in shape at top with CC 1:3:6 foundation 40mm and down size graded metal of approved quality and with an offset of 0.15m alround the chamber and brick masonry in CM 1:4 plaster with wire cut bricks of approved quality and CM plaster 1:3 proportion 12mm thick inside and outside except for the conical surface at outside where the thickness of plaster shall be 20mm thick with 1:6 slope in the concrete towards the central drain, finished smooth and fixing of pipes in CC 1:2:4 graded metal of 20mm and down size including conveying to work spot supplying and fixing SFRC manhole frame and cover confirming to IS:12592 with latest ammedments in CC 1:2:4 supplying and fixing of minimum 3mm thick excapsulated plastic footsteps (as per IS 10910) on 12mm dia grade Fe -415 steel bar (As per IS 1786) staggered at 30 cms apart as detailed in the technical specifications and as directed watering, curing, barricading, danger lighting, pouring tar over MH frame and cover , cost of tar, shoring, strutting, dewatering engraving manhole no with flow direction on the inner conical surface etc.., as per the drawing with wire cut brics as per technical specification for the following diameters and depths by using ordinary Portland cement.(rate of the manhole is inclusive of cost of SFRC ring and covers (heavy duty) SR 2016-17, P-68, P168 I 101								
	1.40 m depth								
	MH 15, MH16, MH 17,		3	1.4			3	23204.00	69612.00

Scanned with CamScanner

Sl no	Specification	Unit	No	L	B	D	Qty	Rate	
6	Providing laying spreading compacting graded stones aggregate to wet mix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed material by tiooer to site laying in uniform layer with paver in sub base / base course on well prepared surface and compacting them with vibratory roller to achieve the desired density complete as per specification MORTH specification no 406 PWD SR								
	Qty same as in Item 1 and 2	Cum					28.98	1668	48345.00
7	Refilling of available earth around pipelines, in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering all lead and lift including cost of all labour including consolidation by mechanical means approved by engineer incharge, when earth is at suitable moisture content with desired field density upto 95% maximum dry density (modified heavy proctor test) for restoration of roads without settlement including HOM of machineries,complete.(The contractor shall take care while consolidating the earth, so that, pipes laid are not damaged due to mechanical compaction and shall restore the damaged pipes at his own cost, in case of damage). SR 2016-17 P-9,1-2 P56 I 14.1								
	Earth work qty	Cum					379.83		
	Deductions pie volume - 3.14 x 0.23 x 0.23 x 0.25 x 377						15.67		
	Qty refilled						364.16	103	37509.00
8	Disposing off the excavated earth of all types and distance mentioned below including loading, unloading with all lifts labour , HOM machineries etc complete **5 Km** BWSSB SR 17-18 p 1017 P57 I 20.5								
	Deductions pie volume - 3.14 x 0.23 x 0.23 x 0.25 x 377						15.67		
	Earth replaced by Wet mix macadam						28.98		
	Total qty						44.65	193.00	8618.00
	Work of Providing and laying 230 mm dia GSW pipeline with rubber gaskets near Shankar nag Railway gate								

Scanned with CamScanner

Sl no	Specification	Unit	No	L	B	D	Qty	Rate	Amount
1	Cutting road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading danger lighting etc.., in the following classification. Cutting Asphalt road (SR 2017-18, P -9 1-4-2)								
	1st Cross near railway gate								
	MH 1 to MH 2	Cum	1	34.00	0.80	0.125	3.40		
	MH 2 to MH 3		1	30.00	0.80	0.125	3.00		
	MH 3 to MH 4		1	30.00	0.80	0.125	3.00		
	MH 4 to MH 5		1	30.00	0.80	0.125	3.00		
	MH 5 to MH 6		1	30.00	0.80	0.125	3.00		
	MH 6 to MH 7		1	15.00	0.80	0.125	1.50		
	1st A cross					0.125			
	MH 8 to MH 9		1	30.00	0.80	0.125	3.00		
	MH 9 to MH 10		1	30.00	0.80	0.125	3.00		
	MH 10 to MH 11		1	30.00	0.80	0.125	3.00		
	MH 11 to MH 12		1	30.00	0.80	0.125	3.00		
	MH 12 to MH 13		1	30.00	0.80	0.125	3.00		
	MH 13 to MH 14		1	15.00	0.80	0.125	1.50		
	2nd Cross near railway gate								
	MH 15 to MH 16		1	20.00	0.80	0.125	2.00		
	MH 16 to MH 17		1	30.00	0.80	0.125	3.00		
	MH 17 to MH 18		1	30.00	0.80	0.125	3.00		
	MH 19 to MH 19		1	30.00	0.80	0.125	3.00		
	MH 19 to MH 20		1	17.00	0.80	0.125	1.70		
	3rd Cross near railway gate								
	MH 21 to MH 22		1	30.00	0.80	0.125	3.00		
	MH 22 to MH 23		1	35.00	0.80	0.125	3.50		
	MH 23 to MH 24		1	33.00	0.80	0.125	3.30		
	MH 24 to MH 25		1	36.00	0.80	0.125	3.60		
	MH 25 to MH 26		1	58.00	0.80	0.125	5.80		
	Total						**65.30**		
	Deductions for Manholes		22	2.18	0.8	0.125	4.80		
	Net qty						**60.50**	894	54091.00
2	Earthwork excavation for pipeline trenches (except building works) including depositing on bank up to a lead of 30 meters including danger lighting and using sight rails and boning rods including shoring, strutting bailing out water at every 100 meters wherever necessary as directed in the following strata. In all soils mixed with boulders of 30 cms size upto and exclusive of disintegrated rock. (SR 2017-18, P-6, 1-1.a)								
	0.00 m to 2.00 m depth	Cum							

Scanned with CamScanner

Sl no	Specification	Unit	No	L	B	D	Qty	Rate	Amount
	1st Cross near railway gate								
	MH 1 to MH 2		1	34.00	0.80	1.60	43.52		
	MH 2 to MH 3		1	30.00	0.80	1.65	39.60		
	MH 3 to MH 4		1	30.00	0.80	1.70	40.80		
	MH 4 to MH 5		1	30.00	0.80	1.70	40.80		
	MH 5 to MH 6		1	30.00	0.80	1.75	42.00		
	MH 6 to MH 7		1	15.00	0.80	1.80	21.60		
	42nd cross								
	MH 8 to MH 9		1	30.00	0.80	1.50	36.00		
	MH 9 to MH 10		1	30.00	0.80	1.55	37.20		
	MH 10 to MH 11		1	30.00	0.80	1.60	38.40		
	MH 11 to MH 12		1	30.00	0.80	1.60	38.40		
	MH 12 to MH 13		1	30.00	0.80	1.65	39.60		
	MH 13 to MH 14		1	15.00	0.80	1.70	20.40		
	2nd Cross near railway gate								
	MH 15 to MH 16		1	20.00	0.80	1.70	27.20		
	MH 16 to MH 17		1	30.00	0.80	1.70	40.80		
	MH 17 to MH 18		1	30.00	0.80	1.70	40.80		
	MH 19 to MH 19		1	30.00	0.80	1.65	39.60		
	MH 19 to MH 20		1	17.00	0.80	1.60	21.76		
	3rd Cross near railway gate								
	MH 21 to MH 22		1	30.00	0.80	1.50	36.00		
	MH 22 to MH 23		1	35.00	0.80	1.50	42.00		
	MH 23 to MH 24		1	33.00	0.80	1.50	39.60		
	MH 24 to MH 25		1	36.00	0.80	1.50	43.20		
	MH 25 to MH 26		1	58.00	0.80	1.50	69.60		
	Total						**438.32**		
	Deductions for Manholes		22	2.18	1.5	1.62	116.58		
	Asphalt road cutting						60.50		
	Total deductions						177.08		
	Net qty						**261.24**	167	43627.00

P51 I 1.1

Scanned with CamScanner

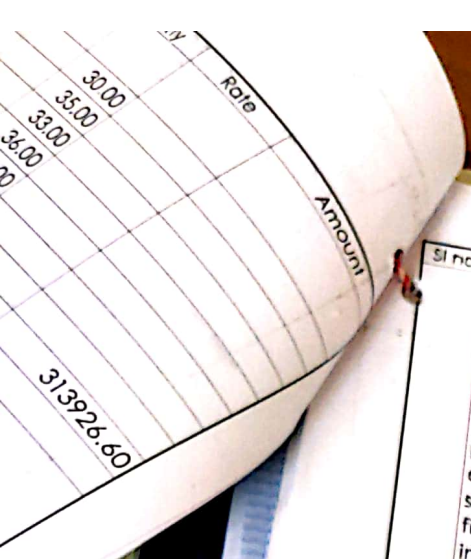
Sl no	Specification	Unit	No	L	B	D	Qty	Rate	Amount
3	Supplying lowering laying, jointing, testing and commissioning of following diameters glazed stone ware pipes, conforming to IS 651:1992. (with 5th revision) in all respects jointing with EPDM rubber rings (seals according to EN 681 & ASPM 425) The rubber seals joints pipe will have groves in interior of socket and exterior of the spigot. The rubber gasket shall be prefixed at the factory by the manufacturer rigidly with approved glue to have leak proof joint including conveying of pipe to work site and rolling and lowering into trenches, laying true to line, level and perfect linking at joints testing and commissoning including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of GSW pipes and specials, with rubber gaskets conforming to EN 681 and ASTM C-425 including cleaning the socket and spygot with soap solution and applyign talcum powder for detecting crack, then applying glue and before inserting of rubber gaskets, jacking and fixing in perfect condition including the cost of soap solution, talcum powder and glue etc. and giving necessary hydraulic test to the required pressure ofwater head with all lead and lifts including costing of jointing materials and all necessary survey works for laying of sewers etc., and disposal of debris as directed etc., complete. (Contractor will make his own arrangements for procuring for testing) with Rubber ring gasket joints P158 I 4.4								
	230 mm dia								
	1st Cross near railway gate								
	MH 1 to MH 2	Cum	1	34.00			34.00		
	MH 2 to MH 3		1	30.00			30.00		
	MH 3 to MH 4		1	30.00			30.00		
	MH 4 to MH 5		1	30.00			30.00		
	MH 5 to MH 6		1	30.00			30.00		
	MH 6 to MH 7		1	15.00			15.00		
	42nd cross								
	MH 8 to MH 9		1	30.00			30.00		
	MH 9 to MH 10		1	30.00			30.00		
	MH 10 to MH 11		1	30.00			30.00		
	MH 11 to MH 12		1	30.00			30.00		
	MH 12 to MH 13		1	30.00			30.00		
	MH 13 to MH 14		1	15.00			15.00		
	2nd Cross near railway gate								
	MH 15 to MH 16	m	1	20.00			20.00		
	MH 16 to MH 17		1	30.00			30.00		
	MH 17 to MH 18		1	30.00			30.00		
	MH 19 to MH 19		1	30.00			30.00		
	MH 19 to MH 20		1	17.00			17.00		

Scanned with CamScanner

Sl no	Specification	Unit	No	L	B	D	Qty	Rate	Amount
	3rd Cross near railway gate								
	MH 21 to MH 22		1	30.00			30.00		
	MH 22 to MH 23		1	35.00			35.00		
	MH 23 to MH 24		1	33.00			33.00		
	MH 24 to MH 25		1	36.00			36.00		
	MH 25 to MH 26		1	58.00			58.00		
	Total						**653.00**		
	Deductions for Manholes		22	1.2			26.40		
	Net qty						**626.60**	501	313926.60
4	Dismanatling the damaged or collapsed manholes of 1.20 mtr dia conical in shape and reconstructing the same with machine made wire cut bricks in CM (1:4 as per design and specification of new manholes 1.20 mtr dia with old frame and cover excluding bed concrete 1:3:6 SR 2017-18, P.78								
	Up to 1.00 m depth								
	MH 1, Mh 2, MH 3, MH 4, MH 5, MH 6, Mh 7, MH 8, Mh 9, MH 10, MH 11, MH 12, MH 13, MH 14, MH 15, MH 20, MH 21, MH 22, MH 23, MH 24, MH 25, MH 26	NO	22				22	12694.00	279268.00

P180 I 118

Scanned with CamScanner



Sl no	Specification	Unit	No	L	B	D	Qty	Rate	Amount
5	Providing and constructing "wire cut brick manhole chambers" using sulphate resistant cement, conical in shape at top with CC 1:3:6 foundation 40mm and down size graded metal of approved quality and with an offset of 0.15m around the chamber and brick masonry in CM 1:4 plaster with wire cut bricks of approved quality and CM plaster 1:3 proportion 12mm thick inside and outside except for the conical surface at outside where the thickness of plaster shall be 20mm thick with 1:6 slope in the concrete towards the central drain. finished smooth and fixing of pipes in CC 1:2:4 graded metal of 20mm and down size including conveying to work spot supplying and fixing SFRC manhole frame and cover confirming to IS:12592 with latest ammedments in CC 1:2:4 supplying and fixing of minimum 3mm thick excapsulated plastic footsteps (as per IS 10910) on 12mm dia grade Fe -415 steel bar (As per IS 1786) staggered at 30 cms apart as detailed in the technical specifications and as directed watering, curing, barricading, danger lighting, pouring tar over MH frame and cover , cost of tar, shoring, strutting, dewatering engraving manhole no with flow direction on the inner conical surface etc.., as per the drawing with wire cut brics as per technical specification for the following diameters and depths by using ordinary Portland cement.(rate of the manhole is inclusive of cost of SFRC ring and covers (heavy duty) SR 2016-17, P-68,								
	MH16, MH 17, MH 18 MH 19,		4	1.7			4	26479.00	105916.00
6	Providing laying spreading compacting graded stones aggregate to wet mix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed material by tiooer to site laying in uniform layer with paver in sub base / base course on well prepared surface and compacting them with vibratory roller to achieve the desired density complete as per specification MORTH specification no 406 PWD SR								
	Qty same as in item 1 - Asphalt cutting	Cum					60.50	1668	100921.00

Scanned with CamScanner

Sl no	Specification	Unit	No	L	B	D	Qty	Rate	Amount
7	Refilling of available earth around pipelines, in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering all lead and lift including cost of all labour including consolidation by mechanical means approved by engineer incharge, when earth is at suitable moisture content with desired field density upto 95% maximum dry density (modified heavy proctor test) for restoration of roads without settlement including HOM of machineries,complete.(The contractor shall take care while consolidating the earth, so that, pipes laid are not damaged due to mechanical compaction and shall restore the damaged pipes at his own cost, in case of damage). SR 2017-18 P-9,1-2 P56 I 14-1								
	Earth work qty	Cum					261.24		
	Deductions pie volume - 3.14 x 0.23 x 0.23 x 0.25 x 720.6						26.04		
	Qty refilled						235.20	103	24225.00
8	Disposing off the excavated earth of all types and distance mentioned below including loading, unloading with all lifts labour , HOM machineries etc complete **5.00 Km** BWSSB SR 14-15 p 1017 P57 I 20-5								
	Deductions pie volume - 3.14 x 0.23 x 0.23 x 0.25 x 720.6						26.04		
	Earth replaced by Wet mix macadam						60.50		
	Total						**86.55**	193.00	16704.00
	Work of Providing and laying 230 mm dia GSW pipeline with rubber gaskets near Muthyalamma temple								
1	Cutting road surfaces for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the classifications for: **Asphalt road** P56 I 16-20								
	BWSSB SR 17-18 p 58 I 16.2								
	1st cross Muthyalamma temple								
	MH 1 TO MH 2		1	30.00	0.80	0.125	3.00		
	MH 2 to MH 3		1	30.00	0.80	0.125	3.00		
	MH 3 to MH 4		1	30.00	0.80	0.125	3.00		
	MH 4 to MH 5		1	30.00	0.80	0.125	3.00		
	MH 5 to MH 6		1	30.00	0.80	0.125	3.00		
	MH 6 to Mh 7		1	39.00	0.80	0.125	3.90		
	2nd cross Muthyalamma temple								
	MH 8 to MH 9		1	30.00	0.80	0.125	3.00		
	MH 9 to MH 10		1	30.00	0.80	0.125	3.00		

Scanned with CamScanner

Sl no	Specification	Unit	No	L	B	D	Qty	Rate	Amount
	MH 10 to MH 11		1	30.00	0.80	0.125	3.00		
	3rd cross Muthyalamma temple								
	MH 12 to MH 13		1	42.00	0.80	0.125	4.20		
	MH 13 to MH 14		1	42.00	0.80	0.125	4.20		
	MH 14 to MH 15		1	41.00	0.80	0.125	4.10		
	MH 15 to MH 16		1	29.00	0.80	0.125	2.90		
							43.30		
	Deductions for Manholes		13	2.180	0.8	0.125	2.83		
	Net qty						**40.47**	894	36177.00
2	Earthwork excavation for pipeline trenches (except building works) including depositing on bank up to a lead of 30 meters including danger lighting and using sight rails and boning rods including shoring, strutting bailing out water at every 100 meters wherever necessary as directed in the following strata. In all soils mixed with boulders of 30 cms size upto and exclusive of disintegrated rock. (SR 2016-17, P-6, 1-1.a)								
	0.00 m to 2.00 m depth	Cum							
	1st cross Muthyalamma temple								
	MH 1 TO MH 2		1	60.00	0.80	1.65	79.20		
	MH 2 to MH 3		1	30.00	0.80	1.70	40.80		
	MH 3 to MH 4		1	30.00	0.80	1.75	42.00		
	MH 4 to MH 5		1	30.00	0.80	1.80	43.20		
	MH 5 to MH 6		1	30.00	0.80	1.90	45.60		
	MH 6 to Mh 7		1	39.00	0.80	2.00	62.40		
	2nd cross Muthyalamma temple								
	MH 8 to MH 9		1	30.00	0.80	1.60	38.40		
	MH 9 to MH 10		1	30.00	0.80	1.60	38.40		
	MH 10 to MH 11		1	30.00	0.80	1.60	38.40		
	3rd cross Muthyalamma temple								
	MH 12 to MH 13		1	42.00	0.80	1.40	47.04		
	MH 13 to MH 14		1	42.00	0.80	1.75	58.80		
	MH 14 to MH 15		1	41.00	0.80	2.00	65.60		
	MH 15 to MH 16		1	29.00	0.80	2.00	46.40		
	Total						**646.24**		
	Deductions for Manholes		13	2.180	0.8	1.75	39.68		
	Asphalt road cutting						40.47		
	Total deductions						80.14		
	Net qty						**566.10**	167	94538.00

P51 I 1.1

Scanned with CamScanner